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cient of solutions of polymers than was given in previ-
ous theories leads to an essential change in the theory.
On the theory proposed, the A_2 values in good solvents
are considerably higher than on the Casassa-Markovitz
theory, for given chain dimensions, and the depend-
ence of A_2 on the molecular weight is noticeably less
than in the theory given. The Flory-Krigbaum-Orofino
theory leads, in the region of ordinary values for α ,
the coefficient of dissociation, to values for A_2 that
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are close to those predicted by the proposed theory; but it leads to much different results both in poor solvents and in regions of large α , and likewise predicts a considerably weaker dependence of A_2 on the molecular weight than our theory does. Comparison of the various A_2 theories with the experimental data for both poor and good solvents shows that the theory proposed is in much better agreement with experiment than the Flory-Krigbaum-Orofino and Casassa-Markovitz theories. (Author)

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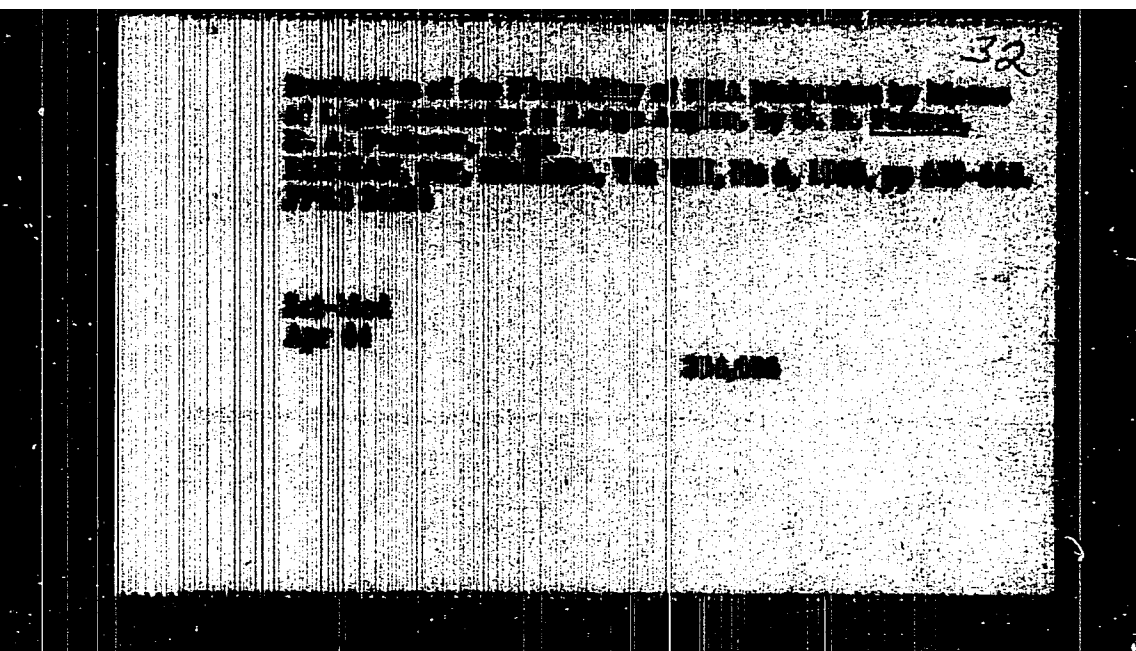
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